

REMARKS:

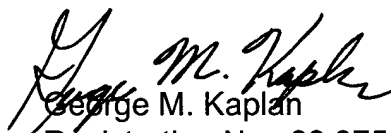
The claims in the application are 1-36.

Favorable consideration of the application as amended is respectfully requested.

The claims have been amended to eliminate all multiple dependencies. The specification has also been amended for formal reasons (a marked-up copy is enclosed).

Early favorable action is earnestly solicited.

Respectfully submitted,


George M. Kaplan
Registration No.: 28,375
Attorney for Applicant(s)

DILWORTH & BARRESE, LLP
333 Earle Ovington Blvd.
Uniondale, New York 11553
(516)228-8484

JC986 U.S. PTO
09/940913
08/28/01

5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 10

Such an optical feature allows different views if it is viewed from different directions of gaze, for example from two different directions of gaze with a dual-channel hologram. A tilt effect can be realised in this way. The design in a holographic form also makes forgery significantly more difficult. A holographic structure is very difficult to imitate in a photocopying technique. On the other hand, no additional optical structures are required to allow the observation of the different views from different directions. Compatibility with

3. An optical feature in accordance with ~~either of claims 1 or 2~~, wherein the sub-regions comprise recesses in the regions (21, 22) reconstructing the respective image under incident light.
4. An optical feature in accordance with ~~any of claims 1 to 3~~, wherein the sub-regions comprise parts of the respective region (21, 22), to which the relevant sub-region belongs, whose optical properties have later been modified by a laser.
5. An optical feature in accordance with ~~any of claims 1 to 4~~, wherein the at least one hologram (1) holographically reconstructs diffuse object beams from different directions.
6. An optical feature in accordance with ~~any of claims 1 to 5~~, wherein the at least one hologram (1) holographically reconstructs shaped object beams from different directions.
7. An optical feature in accordance with ~~any of claims 1 to 6~~, wherein the at least one hologram (1) comprises an embossed hologram structure.
8. An optical feature in accordance with ~~any of claims 1 to 7~~, wherein the regions (21, 22) for the reconstruction in different directions of gaze each comprise colour-separated rainbow holograms.
9. An optical feature in accordance with ~~any of claims 1 to 8~~, wherein the regions (21, 22) comprise respective, preferably multi-colour, volume holograms for reconstruction in different directions of gaze.

- [illegible]

17. A method for the production of an optical feature, in particular for documents of value, having the following steps:
- a) manufacture of an at least dual-channel hologram (1), with the information for the individual channels being recorded in different regions of the hologram (1);
 - b1) modification of the optical properties of a sub-region of a region for the reconstruction in a direction of gaze in the form of a pattern;
 - b2) repetition of step b1) for each channel with optionally different patterns.
18. A method in accordance with claim 17, wherein in step a) the different regions (21, 22) for the recording for different channels are selected in the recording of the hologram (1) by different masking of the holographic recording material (1) with a mask (3) in the object light beam or in the reference light beam.
19. A method in accordance with claim 18, wherein a line mask (3) is used for the masking.
20. A method in accordance with claim 19, wherein the line mask (3) is displaced to change the regions (21, 22) for the recording of different channels.
21. A method in accordance with ~~any of claims 17 to 20~~, wherein

- a1) first, a first channel of the hologram (1) is recorded and then step (b1) is carried out for this channel; and
- a2) step (a1) is repeated for the other channels.

22. A method for the production of an optical feature, in particular for documents of value, having the following steps:

- α 1) manufacture of a first holographic structure which reconstructs a first channel of an at least dual-channel hologram (1) under incident light;
- α 2) modification of the optical properties of a sub-region of the first holographic structure in the form of a first pattern;
- β 1) manufacture of a second holographic structure which reconstructs a second channel of the at least dual-channel hologram (1) under incident light on one or more part regions of an otherwise transparent carrier material;
- β 2) modification of the optical properties of a sub-region of the second holographic structure in the form of a second pattern;
- γ) application of the carrier material of the second holographic structure on the first holographic structure.

23. A method in accordance with claim 22, wherein the steps α 2) or β 2) are carried out before the step γ).

TOP SECRET EFOH660

24. A method in accordance with ~~either of claims 22 or 23~~, wherein the first hologram structure is applied over the whole area.
25. A method in accordance with ~~any of claims 22 to 24~~, wherein the holographic structures are formed as embossed holographic structures.
26. A method in accordance with claim 25, wherein the manufacturing steps for the embossed hologram structure comprise a metallising step and, during step $\beta 1$), first a metallised embossed hologram structure is manufactured for the reconstruction of the second channel and then a part of the metallisation is removed so that the second channel is only reconstructed from the remaining part of the second hologram structure and the part from which the metallisation was removed is transparent.
27. A method in accordance with claim 26, wherein step $\beta 2$) is carried out before the part removal of the metallisation.
28. A method in accordance with ~~any of claims 22 to 27~~, wherein steps $\beta 1$), $\beta 2$) and γ) are repeated for each further channel for the manufacture of a more than dual-channel hologram.
29. A method in accordance with ~~any of claims 17 to 28~~, wherein the sub-regions of the individual regions (21, 22) to be modified in their optical properties are modified in the optical properties by a laser (31, 33).

30. A method in accordance with claim 29, wherein the sub-regions of the regions (21, 22) holographically reconstructing an image are destroyed or blackened at least in part with the aid of the laser.
31. A method in accordance with ~~any of claims 17 to 30~~, wherein the sub-regions, whose optical properties are to be modified, of the individual regions (21, 22) are printed over so that they can no longer take part in the holographic reconstruction.
32. A method in accordance with ~~any of claims 17 to 31~~, wherein the hologram (1) is fastened to a dark surface.
33. A method in accordance with ~~any of claims 17 to 32~~, wherein the hologram (1) is fastened to a reflecting hologram.
34. A method in accordance with ~~any of claims 17 to 33~~, wherein the hologram (1) is coated in a reflecting, preferably metallic, manner on the rear side.
35. An optical feature in accordance with ~~any of claims 1 to 15~~, wherein the at least one hologram (1) is arranged in front of a reflecting background.
36. A data carrier, in particular a document of value, having at least one optical feature in accordance with ~~any of claims 1 to 16 or in accordance with claim 35~~.